

No. 6

1823

No 77

On

The Use
of
The Cold Effusion
In

Certain Diseases.

By
Politta Lawg

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The Hon. Prof. J. P. ...
Inaugural Essay,
on
The Remedial Efficacy
of
The Cold Effusion;
in
Certain Diseases.

By
Politha. Laws Pop'd March 20th 1823
of Dover, Delaware.

"Nullum est jam dictum, quod
non dictum prius." T. J. ...

November 1822.

*
ad ...

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The President
The Vice President
The Secretary
The Treasurer
The Clerk

1825
April 1st 1825
The President
The Vice President
The Secretary
The Treasurer
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The President
The Vice President
The Secretary
The Treasurer
The Clerk

To
The Medical Professors
In

The University of Pennsylvania,
This Essay
is

Respectfully Dedicated,
as
A Tribute of Respect to them,
Individually as Gentlemen, and
collectively as forming
The First Medical School
In

The United States.
By the Author.

Benjamin Laws

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The Medical Professor

The University of Pennsylvania

The City

Philadelphia, Delaware

To the Honorable the President of the University

and the Faculty of the University

of the City of Philadelphia

The First Medical School

In

The United States

Philadelphia

1820

Enigma

submitting the following subject for my language
and dissertation, I do not imagine that I have
to discuss anything which has previously claimed its
share of thought, or which has ever been treated
both by the learned and by the popular writers.
Under the title of that essay, which remains as my con-
tribution for a degree of medicine, to wit, on the
nature and medical effects, the following heading, I
first part of a Medical education, is submitted
for your consideration and I shall have submitted
it, did it should be found, that I have sug-
gested and properly explained a subject, which is
interesting and important to the progress of a pro-
fession and the improvement of the treatment of those
who have gone before me, and by your submission
from the title which they have submitted.

I submit the same which submitted to a student for
the presentation of his medical studies, who, I think, and
I think they that have written on it, and I think
the same, and numerous that I think more can
be expected than an historical dissertation, and
a compilation of facts from the old authors.

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Preface.

In selecting the following subject for my Inaugural Dissertation, I am not conscious that I am about to advance anything which has peculiar claims to originality of thought, or which has never been sanctioned by the experience, and supported by the reflections of others. But in obedience to that law, which requires every Candidate for a Degree of Medicine, to write an Essay on some medical subject, the following treatise, the first fruit of a Medical education, is submitted for your examinations: and I shall have attained my object if it should be found, that I have argued and properly explained a subject, which is interesting and important to the Profession, by a proper disposition and comparison of the sentiments of those who have gone before me, and by fair deductions from the facts which they have established.

Indeed the time which is allotted to a Student for the prosecution of his Medical Studies, is so short, and the Authors that have written on every subject in Medicine are so numerous, that little more can be expected ~~in~~ in an Inaugural dissertation than a compilation of facts selected from the best Authors. Even

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the collection and arrangement of facts from the most celebrated writers is a task, which few, unassisted by experience, will properly accomplish. For a distinguished Surgeon has told us: "If you adhere to one Author, you are inevitably wrong; if you read many you are bewildered; and indeed a whole life spent in practice will hardly teach you to accurately facts, or to attain that steadiness of temper, and maturity of judgment, which should carry you through your professional duties with confidence & peace of mind."* It is with diffidence and not without apprehensions of failing in the attempt, that I embark in the undertaking. Those to whom this essay is submitted, I feel satisfied will make every allowance for youth and inexperience, which the dignity of their station will permit. It may not be improper to state some of my reasons for selecting the following subject for my Thesis. Considering the power of the Cold bath in diminishing venereal heat when violently increased, and the benefit which many persons have derived from its use, while labouring under nervous and other affections, I have, for some time, thought that it might be more extensively employed in disease, than it is,

* John Wall's principles of Surgery.

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at present, by County Practitioners. This opinion has been founded partly on observation of the beneficial effects, which many persons have derived, from visiting the Mineral Springs in various sections of this Country. I shall not enter into the discussion, which has so long divided the Medical World, with respect to the real causes of benefit to these visitors; whether the salutary effects, which have been observed, be attributable to relaxation from business, gestation and the agreeable company which is always to be found at such places; or to the medicinal virtues existing in the Mineral impregnations. I am inclined to believe however, that all these causes have often conspired together, and that the emaciated subject of disease is more frequently restored to health by a concurrence of cooperating circumstances, than by the single efficacy of any one of them. I also believe that more benefit is ascribable to the other causes assigned than to that of the Mineral impregnation, and that the latter is never productive of any good unless taken internally. I will further add that after reading Dr. Currie's "Medical Reports" on the cold and warm water affections, in

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Petrite and other diseases, I was struck with the
extensive application and persevering industry with
which he conducted his experiments with respect to
the old affusion. To this Physician, we are
indebted for many facts, which, previous to his day,
were unknown. His diligence in ascertaining, by
thermometrical observation, the actual heat
of the Animal system, in certain diseases, rendering
his work of the highest practical importance,
and affording new grounds for pathological specula-
tion. There are some of the considerations which
influenced me in the selection of this subject: and
though I do not expect applause, I trust I shall
escape censure, when it is known that I exhibit
with reluctance what I have been compelled to
write in compliance with that Law, which knows
not partiality and which must stand as a last-
ing Monument of the Wisdom of its framers.

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Preliminary Remarks

In treating of the practical application of the Cold Affusion, I shall select those diseases wherein its utility is most conspicuously manifested. To mention all the diseases wherein the cold bath has been found useful, would extend this essay to an unwarrantable degree of prolixity. I shall confine my remarks on the subject of the cold affusion, to Typhus Fever and Small-pox, (and shall add a few observations on Inter-mittent and Remittent Fevers. The extensive subject which I thus embrace, will not permit me to consider the minutiae of the Diseases of which I am to treat: If it did I would not hesitate to acknowledge my incompetency to the task.

I have preferred the Affusion to the Aspersion, because the shock made on the system is more sudden, powerful and lasting, and to Immersion, because the system is, by the process of evaporation, relieved more speedily from its preternatural heat, while

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The first of the year was a very dry one
and the crops were much injured by the
drought. The wheat was particularly
affected and the yield was very small.
The corn was also much injured and
the yield was very small. The
cattle and sheep were also much
affected and the loss was very
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and the situation was very
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difficult one for everyone.

at the same time the Stiffness is more convenient.

I shall make a few remarks on the manner
of using the Cold Bath by different nations, for
the purpose of illustrating the power of the system
in resisting the injurious tendency of the sudden
vicissitudes of heat and cold.

Roman, carried it; hence the circumstance of its being
mentioned in the habits of Rome, in point of number,
and many houses remain unsupplied in the place.
— "Vitae denique culpam," compared with
"Non laudem moris." — Very fully to say
that the ignorance of his country is the
use of bathing. The cause, to which the Romans
brought the use of the cold and warm baths
well known.

Turning to the pages of Antiqui-
ty, we find the use of the cold bath in disuse, of long
standing. The first authentic account we have of
its use is to be found in the early part of the his-
tory of Greece. Melampus, a famous Greek Phys-
ician of his day, is said to have been the person who
first prescribed it. His first experiments are said to
have been made on the Daughters of the King of
Sperges, a celebrated City of Peloponnesus. At so
remote a period of antiquity, it is not to be expect-
ed that we should be accurately acquainted with
the circumstances which first gave rise to its use.
The Cold-bath, however, in all ages of Society, has been
considered one of the greatest luxuries of the World.
The excess to which the Greeks, and particularly the

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Romans, carried it, proves the correctness of this as-
sertion. The Baths of Rome, in point of number
and magnificence, remain unparalleled in the pages
of history. Among the causes which conspired to
the downfall of the Roman Republic, may justly be rai-
-ked the excessive indulgence of her citizens in the
use of bathing. The excess, to which the Romans
carried the use of the cold and warm bath, is
well known; it is described by all historians as
one of the greatest excuses to which that Nation
was enslaved. For the purpose of increasing the
luxury of the bath, they were in the habit of bathing
alternately in the warm and cold bath. This from
repetition proving ineffectual, the baths were made
hot, and after being immersed for some time in
a bath of this increased temperature, they rose and
received numerous buckets full of cold water from
a person stationed at the bath. This for a while in-
-creased the pleasure of bathing, but finally by
destroying sensibility, weakening the body, and en-
-feebled the mind, hastened on that fatal ~~degr-~~
~~adation~~ degradation from which they never emerged.
In the bagnios of Imperial Rome, the last of the

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Romans, the followers of Leno and Cato were milled
down into slaves; the powers of their minds became infer-
shet, the vigour of their frames decayed, and they lost
forever the bold impressions of freedom and of virtue.

The confidence reposed by different nations in its prophy-
laetic power, has given it an elevated station in their Reli-
gious Ceremonies. It is much to be regretted that the Mode-
rns use it too little. In the summer season when the body
is loaded with perspirable matter, the frequent use of the cold
bath is of the highest importance. That it has thus been
disregarded appears the more singular, as cleansing and
washing the body was incorporated with the police reg-
ulations of the Jews, and even by the primitive Chris-
tians it was deemed of paramount utility, both as a
preservative of health, and as preparing their minds
for those pure devotional exercises, in which they were
engaged. Altho' this almost obsolete practice,
has however, been happily revived, not only with the
view of stripping the system against the attacks
of disease, but for Chlamo one of the most potent
remedies in the hands of the Physician. The
successful treatment of fevers, those grand avenues
to death, has ever been a desideratum among the

* Dr Burns's Medical Reports on the use of cold and immersion.

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Medical men of every nation, it has called forth the talents and energies of the wisest, and greatest; but human contrivance and ingenuity has been defeated in its object, no medicine has yet been found to be an incurable cure for those formidable enemies of mankind.

Notwithstanding these discouraging facts, more has lately been done towards relieving fevers of their violence, by Simple Nursing, than all the long and complicated lists of compounds, prescribed by the older Physicians. The manner of using the bath among the Russians, although different in some respects, is analogous to that of the Germans. Their bodies are heated in a bath at the temperature of, from 110° to 100° of Fahrenheit's thermometer, and on leaving the bath they roll naked in the snow, and so return to the warm bath and the snow alternately. The experiments of Sir Charles Blagden, Dr. Borden and others show what sudden changes of temperature the system is capable of supporting without injury. These Gentlemen after remaining in a Room heated to the temperature of 240° and 260° of Fahrenheit's thermometer, went out in the cold air with impunity. — The Aborigines of this County are said to have

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been successful in performing cures by this manner
of bathing, which consists in exposing the body of the
patient to a heated and moist atmosphere, produc-
ed by throwing hot stones in a tub of water; after
remaining in this for some time and until the body
is covered with a profuse perspiration, they then leave
the room and plunge into the River. Among the mod-
erns, the Turks excel in this manner of luxurious beth-
ing. They produce copious perspiration by the vapours
which arise from hot water and mix burning perfumes
with the aqueous vapours which constitute the bath.
Perfumed soaps and pomatums are exhausted,
and costly essences are lavished in profusion to
gratify the senses. The Women wash in Rose-water,
blacken the edges of their eye-lids, (and lengthen their
eyebrows with a preparation of Colch) (or a prepara-
tion of lin burnt with gall-worms) they also stain
their finger and toe-nails with Henna, which gives
them a golden colour, and finally the sweet Steam
of the moss of aloes, is passed through the linen and
clothing which they wear. — We shall now pro-
ceed to the more immediate object of this essay. —

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"Each side a cohort of diseases stands,
And shudd'ring Fever ~~stands~~ leads the ghastly band;"—
Parsons Iron. Nat.

Intermittent Fever first claims our attention. No inconsiderable portion of the diseases of our Climate are the results of long protracted intermittents. Although intermittents, in their ordinary form, are easily eradicated, we occasionally find them of the most intractable nature. Intermittent fever is too well known to require a definition. This form of fever is most prevalent in Autumn, when it appears in this County as an endemic disease. There are cases however where the latent predisposition is not called into action until late in the winter, when from the operation of some exciting cause intermittents are produced. They sometimes however are not manifested until the Spring. Sometimes they make their appearance earlier than usual, and we not infrequently see them in the middle of Summer. But, as I have before said, they are the most prevalent in Autumn. This is easily to be accounted for by the well known causes of Intermittents.

marsh miasmata and animal and vegetable putrefaction,
operating with greater violence at this season of the year
than at any other. The remote causes of intermittents
I have already mentioned. The exciting causes are some-
times hidden in obscurity. All those causes which produce
febrility, such as intemperance in eating or drinking, ex-
posure to cold and moist atmosphere, night air and
fatigue, are supposed to operate as such agents. The
proximate cause is located in the stomach. As this
disease is composed of repeated and distinct paroxysms,
and each paroxysm of three stages, the cold, hot and
sweating, Practitioners have modified their treatment
to suit these several stages of the disease: first, in
the cold to excite the hot; secondly, in the hot, to
excite the sweating; thirdly, in the interval or apy-
rexia, to prevent the recurrence and give strength to
the system. Various medicines have been recom-
mended to perform these several indications, of
which it does not come under my province to
speak. In the case of intermittents the first

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indications is to evacuate the stomach and bowels, where symptoms indicate obstruction. The occasional administration of Emetic and a crasse opening, generally constitute the treatment in this disease.

As I have before said, ^{we} occasionally find them to resist all our remedies. There are the cases wherein I conceive the cold affusion particularly applicable. Referring particularly upon the treatment of fever with the cold affusion, I shall lay down a few general principles, which are to govern its application.

First, by the term cold bath, we mean any degree of heat not above 105 and not below 35° of Fahrenheit's thermometer. These degrees may be varied according to circumstances.—

Secondly, the cold affusion should not be given in the cold stage of fever, or when the patient experiences any sensible degree of cold.—

Thirdly, The cold affusion is not to be given when the patient is in a perspiration, or at least, not long after perspiration has commenced.

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Fourthly, the cold affusion should not be given when the heat of the patient is not above the natural standard.

Fifthly, the nearer the heat approaches to that of health, the less should be the degree of cold.

Sixthly, the greater the degree of heat of the patient, the lower should be the temperature of the bath.

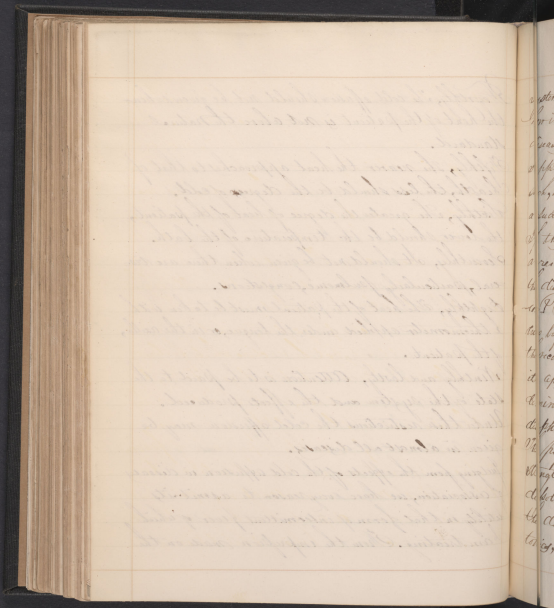
Seventhly, it should not be given when there are visceral, particularly pulmonary, congestions.

Eighthly, the heat of the patient must be taken with a thermometer applied under the tongue, or in the axilla, of the patient.

Ninthly and lastly, attention is to be paid to the state of the system and the effects produced.

Under these restrictions the cold affusion may be given in almost all diseases.

Judging from the effects of the cold affusion in disease of association, we have every reason to admit its utility in that form of intermittent fever of which I am treating. From the impression made on the



system by the cold bath we can readily conceive
how it operates in the cure of intermittents. All
diseases depending on the force of habit, and we
suppose these obstinate cases of intermittents to be
such, require for their cure such remedies as make
a sudden and powerful impression on the system.
If this reasoning be correct, where shall we find
a remedy more admirably adapted to the cure of
the disease under consideration than the cold affu-
sion? The cold affusion applied about an hour or
two before the expected paroxysm, tends to prevent
the recurrence of the fit, by the reaction which follows
its application. Given in the hot-stage of fever, it
diminishes heat and thirst, which are followed by
diaphoresis and a solution of the paroxysm.
The frequent use of it in the apyrexia of fever,
strengthens the system and has a tendency to
dissolve those morbid concatenations, upon which
the disease actions depend. Combined with other
tonics, I am inclined to believe that there is no

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case of intermittent fever, which may not be sub-
-gated by this potent remedy.

The Cold Affusion has been found useful
in Remittent fever. Dr. Sumers, who had charge
of an extensive fever-Hospital at Lisbon, speaks
of it in the following terms "From the numerous cases
of this disease in which I have witnessed the marvellous
good effects of Cold-water affusion, in bringing on an
immediate Remission, I can not but consider this
remedy as of sovereign power and efficacy in the case
of Remittent Fever." To which he adds "primam
meruit quod laude coronam". The Physician
also informs us, that he met with equal success in the
use of the Cold Affusion in the Yellow fever of Jam-
-aica. "This important discovery (the Cold affusion) by
the late ingenious Dr. Currie of Liverpool, for cutting
short and annihilating the Debile paroxysm, &c. &c. &c.
frequently put to ^{the} test of experiment in treating
the Yellow fever, as it is called, of Jamaica with

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decided success, whenever I was fortunate in having early access to the patient, as was generally the case when Officers were attacked. Dr. Jackson, who resided sometime in Jamaica, and whose name on the island of that Island is held in high estimation, speaks of the cold Affusion to this effect: "Cold bathing, indeed, is the remedy on which we most principally depend. There are others which do good occasionally; but this is the only one I know, which has any very considerable effect in changing the nature of this disease." He recommends the bold administration of the cold bath. We ought always to bear in mind, that in dangerous and difficult cases, subtle remedies, or even powerful ones, finally used, are of little avail. Cold bathing, employed with timidity, failed of doing good in some instances. I met with no example where the boldest use of it did harm. It was seldom, I must again repeat, that it did not succeed in obviating irritability, in checking the putrescent tendency, and imparting to the system

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that degree of tone and vigour, in which safety is observed to consist." I shall not enter into the discussion with respect to the nature of the Fever in Jamaica.

On the use of the Cold Affusion in Synocha, I have nothing to add. This is a fever of rare occurrence, so much so that I am inclined to doubt the existence of it altogether. The late Venerable Professor of the Practice of Medicine in the University of Edinburgh, Doct. Cullen, declared that he had not seen a case of pure Inflammatory Fever in forty years practice.

Typhus Fever.

The next subject which claims our attention is Typhus Fever. This disease has received different appellations from different authors. It is the Contagious Fever of Doct. Lind. The Febrile Inimitation of Doct. Darwin. The low Nervous and

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feil Fever of other Authors;—And, from the
Malignant manner in which it manifests itself in
some constitutions, the Putrid Fever. It is the fifth
Genus of the order Febrs, and first Class of Cullen's
System of Nosology, and defined as follows;—
"Morbus contagiosus; calor parum auctus; pulsus
parvus, debilis plerumque frequens; mima parum mutata;
sensorii functiones plerimum turbatae; virus multum
inominuitae." Typhus militis and Typhus gravior are
only different degrees of violence of the same disease.
This disease is generally produced in places
where there is a want of due cleanliness, in con-
fined places, and ill ventilated apartments;
and when produced, is apt to spread. If we
confine the term contagious to those diseases which
are communicated by contact, or to those dis-
eases propagated by a specific virus the result
of a glandular process, this disease can not
strictly be called contagious. It might with
more propriety, be called infecting. In the

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 99. *Hope*
 100. *Charity*

course of this disease, the animal, vital and Natural functions are variously affected. This disease is generally ushered in with nausea and vomiting, an uneasy sensation about the pæcordia, distention of spirits, pricking in the head, back, and loins, anxiety and confusion of thought. After the disease has lasted for some time, these symptoms are aggravated, to which is added watchfulness, great debility, tremors, subultus tendinum, convulsions and death. This is the course of this fever when not arrested in its progress. Numerous are the Authors that have written on, and various are the remedies that have been recommended, in this disease. Of the Writers on this disease I shall only notice two, Doctors Hamilton and Currie.

At first view Doct. Hamilton's practice would appear unaccountable. But the success which attended it shows its superiority over the ordinary mode of treating dysentery fever. He commenced with the administration of an emetic, which was followed up by

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the daily use of cathartics, generally Calomel combined with jalap, salts, senna, rhubarb or some other purge; the occasional use of enemata, and an occasional anodyne in the evening. This, with some little variation, constituted his mode of treatment. Doctor Hamilton contended that by the frequent use of purgative medicines, you not only remove from the Primæ Viæ the accumulated faeces, but you also remove from the intestines theordes, which is generally collected on their internal surface, and thereby not only remove a source of irritation upon which the continuance of the fever depends, but also give tone to the alimentary canal, and from thence to the whole system through the medium of sympathy. In short, he contended that purging, so far from debilitating the patient, acted as a stimulant to the system. Viewing the symptoms which mark the approach of this disease, which I have already mentioned, and taking into consideration the extensive chain of sympathy which exist between the

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Alimentary canal and other parts of the body, we see
at once the plausibility of the purgation practice.
But at the same time I am disposed to give the pre-
ference to Dr Currie's manner of treating typhus
fever. I feel should be wrong in this preference,
it is because my experience is so limited in this disease,
that Clinical knowledge has not yet taught me the
correct method of treating a malady, upon which,
the Profession is so much divided. While I give the
preference to the cold affusion, prurging as an auxil-
iary is not to be lost sight of. Doct: Currie's
manner of administering the cold affusion, consisted in
pouring repeated buckets-full of cold water on the patient
during the exacerbation of fever, or at any period of the dis-
ease, when the heat of the patient was steadily above
the natural standard; and when the powers of life were
not too much exhausted. He recommends the affusion
to be applied as soon as possible after the attack.
Although his practice was attended with more uniform
success when the affusion was early applied, it did not

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prove inefficacious when administered on the eighth and ninth days of the disease. When early applied, it cuts short the disease at once; and when given in the more advanced stages of fever, it strengthens the system and prevents those fatal terminations which are so apt to take place in this disease. Doct. Dinsdale Physician to the House of Recovery or Fever Hospital in London, and who has had considerable experience with the cold affusion, and the result of which experience goes to confirm the reports given by Dr. Currie, speaks to the following prospect: It appears unnecessary to relate the other cases in which the cold affusion had been used. In all, the good effects of it have been strikingly manifest, and in no instance has the disease terminated fatally after the use of this remedy. In the early stages of typhus the affusion, with very little assistance from medicine, appears to cut short the progress of the disease.

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In the more advanced periods, when the strength of the patient is sufficient to admit the application of this remedy, it moderates the violence of the symptoms, and contributes materially towards a favourable termination."

A Mixture of Vinegar and water is supposed to be better than simple water; and from the experiments made by Dr Currie with a saturated solution of Muric acid of Soda, he thinks the water is not only made more stimulating, but that the sedative effects of the affusion are thereby obviated. The immediate effects of the Cold affusion are as follows; it diminishes heat, allays thirst, removes anxiety, alleviates pain and produces a determination to the surface, which is speedily followed by diaphoresis and sleep. The more permanent effects are those of a tonic obviating debility and increasing the energy of the system. In the advanced stages of typhus where the vital powers are much depressed, the superiority of the tepid affusion or sponging the body with vinegar and water, over the cold affusion can not be denied; in such cases the Author of the "Reports" was in the habit of preceding the cold affusion by

the administration of some of the diffusible stimuli, such as, wine, ether, volatile alkali and such other stimulating articles, as would be likely to rouse the *Vires Medicantes Naturae* to increased efforts.

That, remission is warrantable in some cases of this disease, there can be no doubt. This is indicated by the inflammatory state of the system, such as, hard Pulse, suffused countenance, tendency to phrenitis, and the increased temperature of the patient. Although this last symptom may appear inconsistent with Gallen's definition which I have adopted, nevertheless it is well known, that a morbid accumulation of blood, is one of the most troublesome and aggravating concomitants of this disease. This fact is admitted by most Physicians, besides being proved by the accurate thermometrical experiments of Dr Currie.

From the prejudice which exists in the country among the lower orders of Society, the cold affusion is not likely to be of so much service as the Purgative practice; but in cities, in Hospitals and other Public Institutions, this practice promised more, according to my opinion, than any

other mode of treatment. During the prevalence of Epidemical diseases, we are told, that by the frequent use of the cold bath, the susceptibility of the system to the impression of contagious or infectious matter is diminished, and a protection is thereby afforded not to be obtained by any other means. In the fever which broke out in the 30th Regiment of Soldiers, quartered at Liverpool, in the year 1792, described by the Author of the "Reports," all the usual means for preventing the disease from spreading were used without effect; and it was finally arrested by the use of the Cold bath.

The Professor of the Practice of Medicine in the University of Pennsylvania, mentioned in his Lectures that while he was in Edinburgh, fifteen hundred men in Admiral Duncan's fleet were attacked with Typhus fever and were carried to the Hospital in that place. The symptoms were pain in the head, hot skin, and great restlessness all of which were removed immediately by the Cold affusion.

Although in this country the Cold affusion has not met with such general support, it is nevertheless gaining ground. Professor Chapman

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recommends it in Erythema, but he prefers spon-
-ging the body with water to the effusion. With
the few desultory remarks already made I shall
dismiss the order Febris and proceed with the con-
sideration of Small-Pox.

Small-Pox.

My remarks on this disease will be few and general.
This is the first Genus of the Order Eranthemata,
and first Class of fullon, and defined as follows:—
*Erythema contagiosa cum somnitu, et, ex epigastrio
prode, dolore. Tertio die incipit, et quinto finitur
eruptione papularum phlegmonodiarum, qua, septi-
mo octo diebus, in suppurationem, et in crustas
dormum abeunt, saepe citatimque depupas, sine
forcolas incute, relinquunt.* Happily for mankind
the casual small-pox, by the introduction of vac-
cination into practice, has become a more rare
disease than formerly. This improvement in

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medicine, by the ingenious Dr Jenner, has also done away the necessity of the once common practice of Inoculation. Previous to the practice of vaccination, the fatal effects of this disease are well known. The melancholy pages of Medicine must ever attest the number of the unfortunate victims who were sacrificed to this dreadful Malady. This disease is one, which may truly be called contagious. There we have the specific matter of contagion, elaborated by a glandular process, which Matter, is capable of self-propagation independent of situation, season, climate, age or sex. Of this disease some practitioners have made two species, the Distinct or Mild, and confluent or Malignant. These two species are the same disease, produced by the same specific thing and modified only by peculiarities of constitution. In the former, the febrile symptoms are of the synocha, in the latter of the typhoid type. In the mild Small Pox, the pustules are less in number and distinct; in the malignant they are more numerous and confluent. Still the symptoms in the confluent small pox are more aggravated and consequently more dangerous. Practitioners are pretty well agreed with respect

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to the treatment of small pox. The Antiphlogistic regimen, saline cathartics, acidulous drinks, and keeping the body of the patient cool, generally comprise the treatment of this disease. This treatment, in the mild form of variola, is generally sufficient. But as this disease, in its mildest form, is apt to assume the malignant, and as in some constitutions it first appears in this form, practitioners have been compelled to look for a remedy, which, superadded to the above, would be likely to subdue the malignant nature of this distemper. In the cold affusions they have found a remedy which surpasses all others in moderating the symptoms of variola, and conducting it to a more happy issue. For the superiority of the cold affusion over other remedies in the treatment of variola, we have only to consult Cullen's "Medical Reports". As the practice of inoculation for variola is at present exploded by most of the enlightened Physicians, my remarks will be considered as particularly directed to the natural Small-pox. When patients are affected with symptoms of variola, at a time, when this disease appears as an Epidemic, we are told by the

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highest authority that the early use of the cold
effusion, is attended with the most happy effects.
Although in this disease, we can not, as in some
others of the exanthemata, extinguish the disease
at once, we can moderate all the symptoms, and
thereby render the patient more comfortable, and
prevent those disfigurements which generally sup-
ervene, and which to females is of considerable
importance. As the eruption depends altogether
upon the fever which precedes it, being greater in pro-
portion to the fever; it is evident that all those means
which lessen fever, will mitigate this disease. The
power of the Cold effusion in Febrile affections, I
have already mentioned. From the foregoing obser-
vations it is obvious, that we resort with most
advantage to this remedy, during the incipient or
eruptive fever of Variolæ. To confirm this part
of my subject, I have no higher authority than:
the following emphatic remarks of Dr Currie
"This however, I can declare, that in all the cases
in which I have used the effusion of Cold water
during the eruptive fever, ~~however~~ severe the symp-
-toms may have been, these symptoms instantly

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abated, and the disease instantly assumed its
benignant form." For the pathological views
which I have taken of small pox, the Modus op-
erandi of the Cold Affusion will be readily
understood.

To extend the limits of this Essay further,
would hardly be deemed a proper compliance with
the rule in obedience to which it was written. An
apology for the deficiency of experimental matter
would therefore be unnecessary, even if I were able
to furnish it, and the introduction of it were with-
in the scope of my intention. The subject has long
been neglected by many Practitioners in this
Country and the Authors who have treated of it
have either shambled on the shelf or their moni-
tions have rarely been regarded. The importance
of the remedy considered has caused me to swell
this essay beyond the boundaries usually prescrib-
ed on such an occasion, but of the facts which
are collected in it should be thought of sufficient
weight to induce any to revive or extend this
practice of so much benefit to mankind, no ex-
cuse for the manner ^{in which} they are offered can be wanting.

Nothing therefore remains for me to add but
to tender to the Medical Professors my most
sincere thanks for that politeness and atten-
tion which have marked their Conduct since
I have been their pupil. The path to knowl-
edge in all Professions is laborious and gloomy.

On ours it is perhaps peculiarly so, and
would be nearly traversed with success were it not
irradiated ~~and~~ by the light of you who have gone
before us. A light which from the summit of Pro-
fessional reputation exhibits at once the mazes
of error and the ascent to truth, and whose cheer-
ing influence is proportioned to the height and
distance of the eminence upon which it glitters.

Yours
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An Inaugural Dissertation,
On the
Efficacy of the Hydro-Chloric
Acid, in the treatment of Phtisis
Pulmonalis, Submitted to the
Faculty of Physic,
in the
University of Pennsylvania,
By
John Coughlin

Phila. March 15th 1813

